

Conventional tool

Voltmeter, revolution counter

Digital tester

e.g. made by Bosch, MOT 001.03

Testing

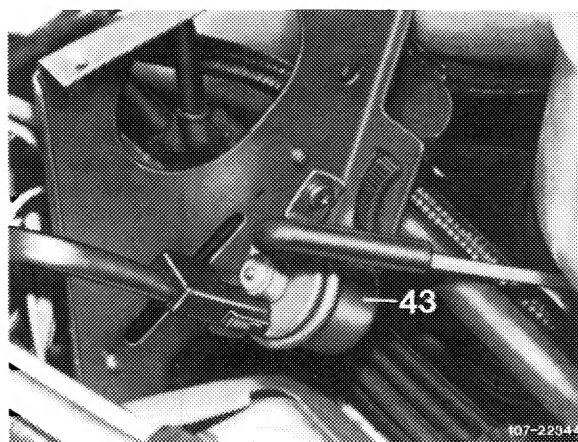
1 Run engine at idle. When adding refrigerant compressor, the idle engine speed should increase by approx. 80/min.

If the idle speed is not increasing, pull upper and lower vacuum line from switchover valve (43).

Vacuum should be available at upper line.

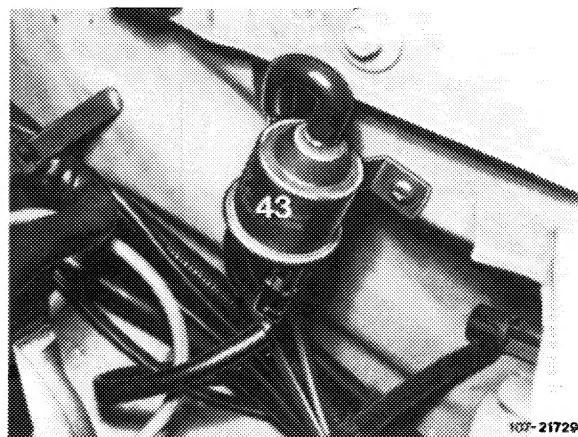
Model 107

43 Switchover valve (mounted on mounting bracket for coolant expansion tank).



Layout switchover valves (43).

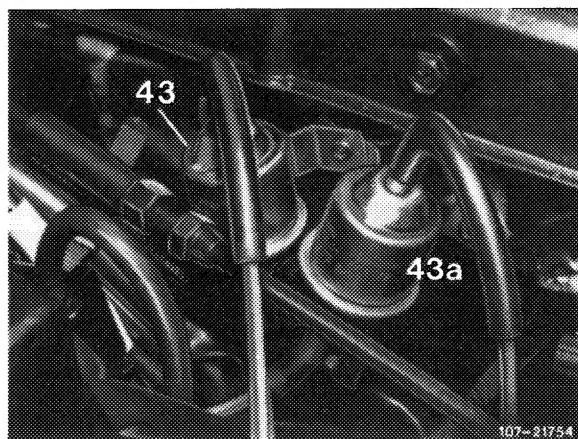
Model 123

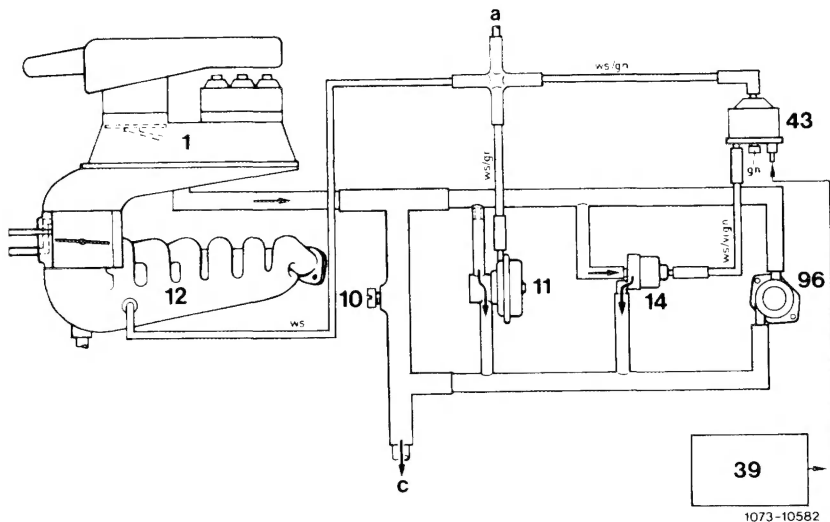


Model 126

43 Switchover valve air conditioning (identification: green cap)

43a Switchover valve decel shutoff (identification: gray cap)



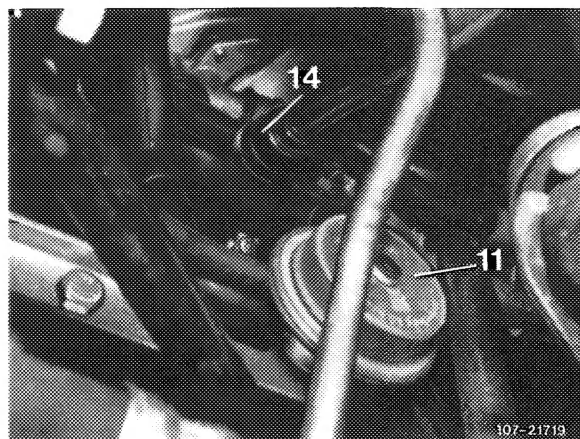


Function diagram idle speed stabilization on engines with refrigerant compressor

- | | | |
|----------------------------------|---|---|
| 1 Mixture controller | 43 Switchover valve rpm increase air conditioning | Color code
gn = green
vi = purple
ws = white |
| 10 Idle speed air screw | 96 Supplementary air valve | |
| 11 Decel circulating air valve | a Connection switchover valve decel shutoff | |
| 14 Bypass valve air conditioning | c To idle speed air duct in intake manifold | |
| 39 Relay air conditioning | | |

Note: For operation decel shutoff and idle speed stabilization refer to 07.3—500.

2 Connect both vacuum lines with each other, idle speed should then increase by approx. 80/min. If not, renew bypass valve (14).



3 If the engine speed increases, check electric activation of switchover valve (43). For this purpose, pull off coupler: with refrigerant compressor switched on, battery voltage should be available. If voltage is available, replace switchover valve. If no voltage is available, test voltage supply according to wiring diagram (refer to wiring diagram group 83 Air conditioning system).

- 1 Fuel pump relay
e Refrigerant compressor

